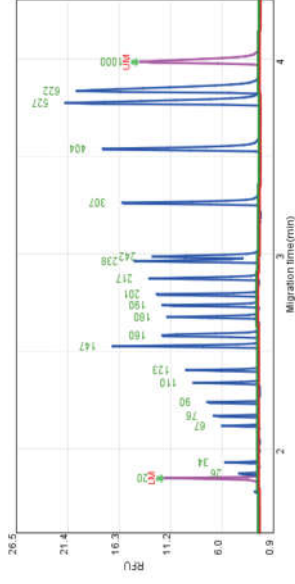
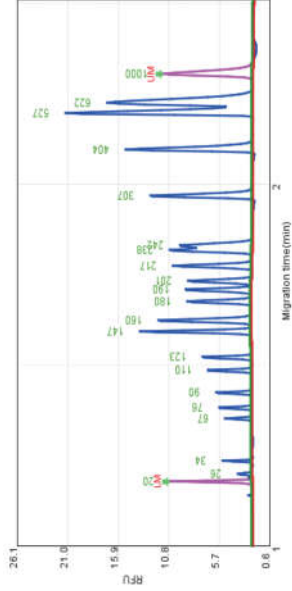
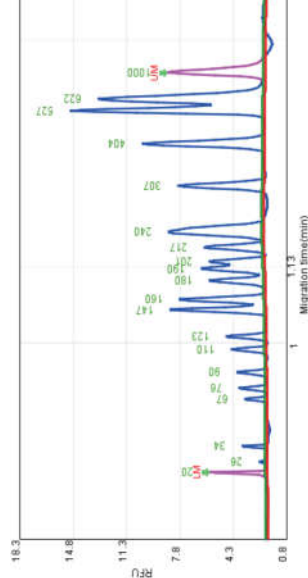


Packing list for 2 pcs/8 pcs cartridge kit**Applications of S1 cartridge**

	High Resolution Cartridge Kit				Applications
	2 pcs (C109202)	8 pcs (C109202)	2 pcs (C109202)	8 pcs (C109202)	
High Resolution Cartridge (S1)	2 pcs	8 pcs	2 pcs	8 pcs	PCR product screening
Alignment Marker (20bp & 100bp, C109200)	100 μ l*2	100 μ l*8	100 μ l*2	100 μ l*8	RFLP
Separation Buffer	50 ml	250 ml	50 ml	250 ml	SNP
Dilution Buffer	15 ml	50 ml	15 ml	50 ml	CRISPR QC & Analysis
Mineral Oil	8 ml	25 ml	8 ml	25 ml	*Library & Fragmentation
Accessory Package					
Buffer Tray	2 pcs	8 pcs	2 pcs	8 pcs	
PCR Vial	8 Strip *1		8 Strip *1		
Dropper	2 pcs	8 pcs	2 pcs	8 pcs	

Best resolution is determined by the DNA ladder, 15-622bp DNA size marker (C109200).

*Higher accuracy, but longer separation time.

Analyzed result of 15-622bp DNA size marker (C109200) by S1 cartridge**M4-10-06-300****M4-10-08-200****M4-10-10-120****§ Troubleshooting Steps §****(1) HV check failed**

- 1-a. Repeat HV check 2-3 times.
- 1-b. Soak cartridge tip in hot water and purge cartridge at least 15-30 mins with purge station simultaneously.

(2) Calibration failed

Check HV purge, sample injection and separation current respectively.

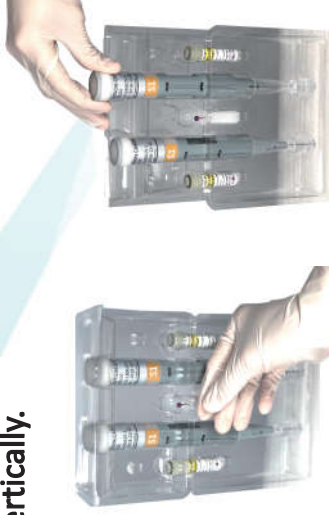
- ➔ **Unstable current of sample injection:**
Make sure alignment marker (20 bp & 1000 bp, C109100) was loaded $\geq 20 \mu$ l in 0.2 ml PCR tube and placed at MA1/M position.
- ➔ **Unstable current of HV purge or separation:**
2-a. Repeat unpacking procedure (2) and make sure the pin has been pressed all the way in (puncturing the internal gel barrier).
2-b. Follow "Troubleshooting 1-b".

High Resolution Cartridge Kit



Unpacking procedure

1. Open the cartridge shell and take out cartridge vertically.



2. Insert the pin into the small hole of cartridge cap and press it all the way in.



Recommendation: Repeat step 2 before use each time.

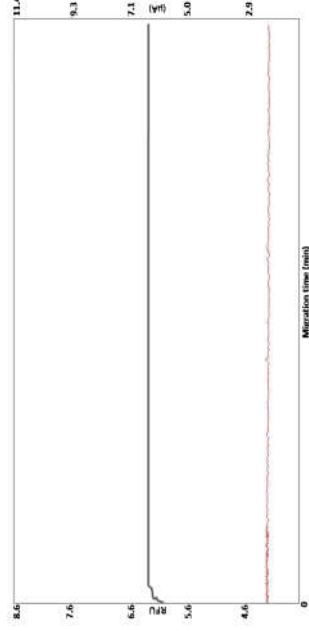
3. Remove the pin and clean cartridge cap and tip with tissue. Make sure the cartridge is always kept in vertical position.



4. Cartridge has to pass **HV check** and **Calibration** before use.

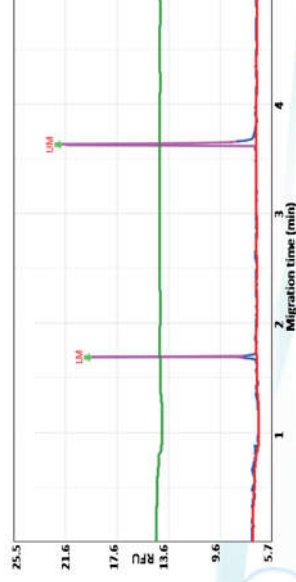


- HV check: The current (gray line) should be flat and > 2 μ A.



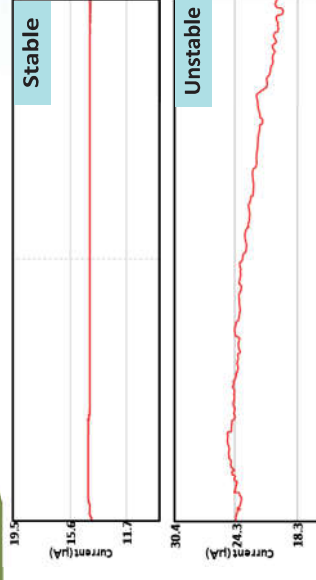
*If the HV check failed, please refer to troubleshooting (1).

- Calibration: Place alignment marker 20 bp & 1000 bp (C109100) at MA1/M position.

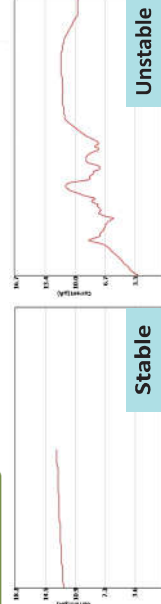


Once the calibration step is successful, check the HV purge, sample injection and separation current. If the current is unstable, please refer to troubleshooting (2).

HV purge



Sample injection



Separation

